APPENDIXF

Technical Memo: Testing and Disposal of Retrieved Items Bradford Island Landfill



Technical Memorandum



To:

Paul Huebschman

From:

Chris Moody & Jeff Wallace

Date:

May 22, 2001

Subject:

Testing and Disposal of Retrieved Items - Bradford Island Landfill

USACE contracted URS Corporation (URS) to conduct an additional investigation of the near-shore area of Bradford Island under Contract DACW57-99-D-0005 Delivery Order No. 0004, dated March 26, 2001. Section 3.7 of this DO specifies waste management activities required related to materials recovered during past dive work (i.e., electrical items), as well as the remaining drums in investigative-derived wastes generated during upland investigations. Waste management activities included review of available chemical data and other information regarding the wastes, supplemental testing and characterization as necessary, waste containerization, development of waste stream profiles, and assistance to the USACE with respect to preparation of hazardous waste manifests.

URS conducted a site reconnaissance on April 3, 2001 to inventory the wastes and obtain information needed to assist in performance of these waste management tasks. As noted above, two general waste streams have been generated, including:

- Investigative-derived waste (IDW) from upland investigations conducted by TetraTech and URS between 1998 and 2000. This waste includes equipment decontamination fluids, soil cuttings from borehole drilling, drilling fluids, and well development and purge water.
- Electrical equipment removed from the river near the landfill, including electrical light ballasts, lightening arrestors, electrical panels, and other items.

This memo describes URS's activities and presents our recommendations for management of each of the waste streams.

IDW Wastes

IDW was generated during both the Site Inspection (SI) conducted in 1998 by TetraTech, as well as during the Supplemental Site Inspection (SSI) during 1999-2000 by URS. In accordance with URS' DO 0002, samples of the IDW were collected and analyzed; waste management was not addressed in that assignment.

Fourteen (14) samples of containerized IDW generated during the SI and SSI were collected and analyzed. A copy of the IDW sample locations, identification numbers, and analytical results are included as Attachment A. This information was presented in the SSI report (June 2000).

Soil Characterization

Based on these results, three drums containing soil cuttings require off-site disposal. The contents of the remaining drums containing soil cuttings may be disposed of at the Bradford Island landfill. The soil cuttings associated with MW-4 (two drums) contained lead above the RCRA regulatory level (5 mg/L as measured by TCLP) therefore; these soils are regulated as



a characteristic (toxic) hazardous waste (40 CFR 261.24). These drums have been labeled as 06-IDW-#07 and 06-IDW-#08. The soil cuttings associated with MW-5 and SB-6 contained TPH above 100 mg/kg are therefore regulated as special waste (OAR-340-093-170). This drum has been labeled as drill cuttings-IDW14.

Soil Profiling

Two separate waste profiles have been developed for off-site disposal of these materials, including one for the two drums of hazardous waste (lead) contaminated soils, and one for the drum of petroleum-contaminated soils. These profiles were developed with the assistance of personnel from ONYX Environmental, at the request of Brian McCavitt of the USACE. The profiles are included as Attachment B.

Liquid Characterization

Several categories of liquid IDW have been generated during the upland investigations at the landfill, including decontamination fluids, well development and purge water, and drilling fluids. All are essentially water, with some entrained soil particulates and/or bentonite (clay), and have little or no contamination associated with them according to the available testing data.

Matt McClincy at the Department of Environmental Quality (DEQ), has indicated in an August 22, 2000 phone conversation with URS that given the low levels of contaminants found in these material, it can be discharged to the ground surface of the landfill. This information was conveyed to Mr. McCavitt via telephone on May 11, 2001, and in an electronic mail message dated August 25, 2000. A copy of the email is included as Attachment C.

Scheduling/Transportation

The soil profiles were signed by Mr. McCavitt on May 18, 2001 and then were provided to the disposal facilities for profile approval. The drums will be disposed of at the Chemical Waste Management landfill in Arlington, Oregon. The profiles are currently awaiting approval by the disposal facility and will be scheduled for pick up and disposal following approval. Mr. McCavitt requested that URS schedule the transportation task with ONYX Environmental, and to arrange with Mr. Pat Hunter to sign the manifests for these wastes.

The drums will not require additional containerization prior to transportation, however they will need to be labeled, manifested and the vehicle will require placarding prior to transportation. URS will work with the USACE's preferred waste contractor (ONYX Environmental) to ensure proper labeling and placarding occurs.

The remaining drums of soil IDW and the drums of liquid IDW may be disposed of at the landfill by the USACE as scheduling allows.

Electrical Equipment

Electrical equipment was generated during the SSI report (a light ballast was discovered during the seep sampling event in the Spring 2000) as well as during the subsequent dive



survey in November, 2000 and the recovery operations in December, 2000. The light ballast found during the seep sampling event and the equipment recovered during the dive survey in November were placed by the USACE into DOT approved 55 gallon drums for characterization and disposal. Characterization of the materials removed from the landfill and during the November dive was conducted by the USACE on November 11, 2000.

The electrical equipment generated during the December recovery operations was placed into "super sacks" and then these sacks were placed by the USACE into two 20-yard capacity rolloff bins. In accordance with DO 0003, USACE maintained responsibility for the management of these wastes.

Two profiles were prepared by the USACE for disposal of these materials by Mr. McCavitt. These profiles were prepared using the analytical results from the November 11, 2000 testing conducted by the USACE. One profile covered the non-hazardous debris, and one covers any PCB equipment that contains greater than 499 ppm of PCBs. Copies of these profiles are included in Attachment D.

URS understands that the two roll-off bins were disposed of by the USACE using the nonhazardous debris profile. However, during the site reconnaissance it was discovered that two super sacks that were not placed into the roll off bins had not disposed of and remained at the hazardous waste storage area on Bradford Island.

Electrical Equipment Characterization

The electrical equipment removed from the river and the landfill can be summarized into three waste streams based on TSCA regulations:

- PCB Capacitors
- PCB-Contaminated Electrical Equipment (ballasts)
- Non-hazardous electrical equipment (less than 50 ppm of PCBs)

PCB capacitors, regardless of level of contamination, are required to be disposed in an incinerator (40 CFR 761.60). The ballasts can be disposed in a landfill, if all the free-flowing liquid is removed from the ballast. Since the ballasts recovered thus far from the Bradford Island Site and inspected by the USACE did not contain free-flowing liquid, these may be disposed of at a hazardous waste (RCRA Subtitle C) landfill.

Electrical Equipment Profiling

Three separate waste profiles have been prepared for electrical equipment, including two for the PCB capacitors and ballasts, and one for the non-hazardous electrical equipment). The first two profiles were developed with the assistance of personnel from ONYX Environmental; the third profile was previously developed by Mr. McCavitt in December 2000. Copies of these profiles are included in Attachment E.



Based on the site reconnaissance and communication with Mr. McCavitt: Three drums contain capacitors, three drums contain ballasts and other debris, and three drums and two "super sacks" contain non-hazardous electrical debris.

Scheduling/Transportation

The profiles were signed by Mr. McCavitt on May 18, 2001 and then were provided to the disposal facilities for profile approval. The non-hazardous debris contained in the super sacks will be disposed of at the Columbia Ridge Landfill in Arlington, Oregon, and the drums containing the PCB capacitors will be incinerated at Waste management's facility in Texas. The remaining electrical equipment will be disposed of at the Chemical Waste Management landfill in Arlington, Oregon. The profiles are currently awaiting approval by the disposal facilities, and will be scheduled for pick up and disposal following approval. Again, Mr. McCavitt requested that URS schedule the transportation task with ONYX Environmental, and to arrange with Mr. Pat Hunter to sign the manifests for these wastes. URS anticipates that the PCB wastes and the IDW wastes will be able to be picked up at the same time.

The drums will not require additional containerization prior to transportation, however they will need to be labeled, manifested and the vehicle will require placarding prior to transportation. URS will work with the USACE's preferred waste contractor (ONYX Environmental) to ensure proper labeling and placarding occurs. The super sacks will require placement into a DOT approved container, prior to transportation.

Summary of Waste Management

Five waste streams generated during the investigation and removal activities at the Bradford Island Landfill will require off-site disposal at three different disposal facilities, including:

Columbia Ridge Landfill-Arlington, Oregon

- 1. Two super sacks that contain non-hazardous electrical equipment.
- The one drum of soil cuttings that contain TPH above the DEQ Special Waste level of 100 mg/kg.

Chemical Waste Management Incinerator- Port Arthur, Texas

Three drums that contain capacitors (the inerteen and coupling capacitors).

Chemical Waste Management Landfill- Arlington, Oregon

- The two drums of soil cuttings that contain lead above the RCRA regulatory level of 5 mg/L.
- The remaining electrical equipment (three drums), including the light ballasts.

Two waste streams generated during the investigation will be disposed of at the Bradford Island Landfill site:



- The contents of the drums containing decontamination and drilling fluids (25 drums).
- The contents of the remaining drums of soil cuttings not requiring off-site disposal (4 drums).

Current Status

As indicated above, the profiles for the waste streams requiring off-site disposal are currently pending approval from the identified disposal facilities. Once the approvals are obtained, URS will work with Mr. Brian McCavitt and Mr. Pat Hunter of the USACE to coordinate the manifesting, containerization and transportation of these waste streams.

The USACE may dispose of the other remaining wastes at the landfill, as scheduling allows. The information provided within this technical memorandum allows the USACE to select which drums of wastes generated during the investigation may be disposed at the Bradford Island landfill.

ATTACHMENT A IDW Analytical Results Table

IDW Sample Results

Bradford Island Landfill Cascade Locks, Oregon

Sample Identification	Sample Location/Drum Label	Abbreviated Sample ID	Media	TCLP Metals (mg/L)	TPH (DRO/RRO/GRO) (ppm)	PCBs/Pesticides (ppm)
990921BIL01IDW	Drum 1 near test pit 8 (Tetra Tech, 1998)	01IDW	Decon Water	NA	2.1/4.3/0	None
990921BIL02IDW	Drum 2 near test pit 8 (Tetra Tech 1998)	02IDW	Decon Water	NA	0.24/0/0	None
990921BIL03IDW	Drum 3 near test pit 8 (Tetra Tech 1998)	03IDW	Decon Water	NA	0.55/0/0.1	None
990921BIL04IDW	Drum 4 near MW-1	04IDW	Decon Water	NA	2.7/12/0	None
990922BIL05IDW	MW3 (Drums 5 and 6)	05IDW	Soil Cuttings	None	None	None
990922BIL06IDW	MW4 (Drums 7 and 8)	06IDW	Soil Cuttings	25-Lead	390/1400/0	None
990922BIL07IDW	MW2 (Drums 9, 10, 11)	07IDW	Soil Cuttings	0.2-Barium	None	None
990922BIL08IDW	MW1 (Drums 12, 13, 14)	08IDW	Soil Cuttings	None	NA	NA
991007BIL09IDW	Drum 1 of 3 near MW2 (URS, 1999)	09IDW	Decon Water	NA	0.4/0/0	None
991007BIL10IDW	Drum 2 of 3 near MW2	10IDW	Decon Water	NA	0.81/0/0	None
991007BIL11IDW	Drum 3 of 3 near MW2 (URS, 1999)	11IDW	Decon Water	NA	0.58/0/0.11	None
991007BIL12IDW	Piezometer DH2002Z drilling fluid (composite of 7 drums)	12IDW	Drilling Fluid	NA	1.1/0/0.1	None
991007BIL13IDW	Piezometer DH2002Z	13IDW	Soil Cuttings	1.2-Barium/ 0.1-Lead	None	0.076-PCBs
991007BIL14IDW	MW5 and SB6 (URS,	14IDW	Soil Cuttings	0.6-Barium/ 0.01- Cadmium/ 0.7- Lead	130/540/47	0.14-PCBs/ 0.01 Alpha-Chlordane

ATTACHMENT B

IDW Waste Profiles

ONYX ENVIRONMENTAL SERVICES, LLC

5720C NE 121* Avenue, Suite 105, Vancouver, Washington 98682-6244

Recertification	WAS	TESTRE	AM INFORMA	TION PR	OFTI.E			
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f flowable powder	e explosive	c m	caremogen	WHO INCHES		- 1	c saoug	
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Is the wastestream subject to Benzene NESHAP	Notification and	Control Requir	ements?	Yes !	No X		
If yes, concentration ppm					-38		
Is the wastestroom subject to RCRA subpart CC	costrols?			Yo N	lo x		
Volatile organic concentration, if known		•					
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. Is the wastestream from a CERCLA or state man	ndated cleanup?		Yes	No X			
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continue that all in ormation submitted in the	is and all attached	documents con	tions true and eccura	te descriptions	of this waste. A	ny sample	subt
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AME (PRINT OR 1495)			PHONE		DATE		
WIFE (MINI CR 1495)					917777		
			Ecc				

FACILITY NOTIFICATION

If approved for management, ONIX has all the necessary permits and licenses for the waste that has been characterized and identified by this profile

WIP NO. 562720

ONYX ENVIRONMENTAL SERVICES, LLC

5720C NF. 121" Avenue, Suite 105, Vancouver, Washington 98682-6244

☐ Recertifi	ication	WAST	ESTREAM INF	FORMATION F	ROFILE		
						Approval Code	
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Is the wastestream sub est to Benzene NESHAR	Notification and C	Control Requir	ements?	Yes No	x		
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. Is the wastestream subject to RCRA subpart CC	controls?			Yes No	X		
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ENERATOR CERTIFICATION							- mh-
hereby certify that all information submitted in th	is and all attached	documents co	tians true and accum	information manufit	a length or	ny sampa	i hazar
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FACILITY NOTIFICATION

If approved for management, ONYX has all the nexcessary permits and licenses for the waste that has been characterized and identified by this profile.

WIP NO. 562719

ATTACHMENT C

E-mail	conveying DEQ approval of discharge of liquid IDW wastes to	the
	Bradford Island Landfill	

George Lukert

To: Paul.A.Huebschman@nwp01.usace.army.mil cc: Jeffrey Wallace/Portland/URSCorp@URSCORP

08/25/2000 07:40 AM

Subject: Bradford Island - IDW

Paul,

I wanted to pass along some IDW information I received from DEQ. On Tuesday (8/22), I spoke with Matt Mclincy to discuss disposal options for IDW water as part of our costing effort for Task Order 0003. During the conversation, I suggested to Matt that decon and IDW water could be used for dust suppression or discharged to the ground surface, given the low levels of contaminants observed during previous investigations. Matt agreed that purge water and decon water sampled during the SSI could be used for dust control during upcoming excavation operations or could be discharged to the ground surface. However, Matt doesn't want IDW waters discharged directly to the river or on top of the landfill so as not to create a "slug" of water passing through the landfill debris. I hope this is helpful.

Thanks.

George

ATTACHMENT D

Previous Electrical	Equipment	Profiles
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GENERATOR AND CUSTOMER MUST READ AND SIGN REVERSE HEREOF INITIAL

Date: _____ Technical Manager. ____

INITIAL

Salesco Systems u. s. A.

5736 W. Jefferson Street, Phoenix Arizona 85043 Tel: (602) 233-2955 Fax: (602) 415-3030

MATERIAL PROFILE SHEET

PCB, PCB-CONTAMINATED, NON-PCB, and NO PCB EQUIPMENT

Where is the waste generated? Senerator Name_US Army Corps	f former	2.0	2. EPAID NO. OR O	140113218
Generator Name Co / King Colpy (of originate			
acility Address Bonneville Co		OR	Zip Code	97014
facility City, State Carcade Lock		0(Phone 541- 374	- 4575
Technical Contact Brian McC	aviTT		Priorie 3 11 3 1	
Where should the invoices and dispose	osal tracking do	cuments be	sent? Same as address a	bove
Company Name Foss Environ				
Company Name (833	AGON A	Je.		
Company City, State Partiand	OR		Zip Code	97217
Contact K. Bewedict			Phone 503- 97	8-7274
Contact Dements		W-100	, Hono	
What is the rate of generation and qu	antities?			
Estimated frequency of generation:			_times over a period of	_ month(s) / year(s) (dirde one)
Estimated Quantity: ~ 200 lbs (kg	g //drums / units	3.4	(de	(s) / year(s) de one)
Choose ONE of the following waste stre	sams per this for	m. For more	than one waste stream, compl	ete en additional form.
 Non-Leaking PCB Lamp Ballasts (BSD) "No PCB" Ballasts Oppm (C90) Non-PCB Equipment <50ppm (F91-1) Non-PCB Oil <50ppm (F100) Non-PCB Small Capacitors <50ppm Non-PCB Soil and Debris Non-RCR Non-PCB Transformer Bushings (F10) Non-PCB Wire and Cable <50ppm (Deaking PCB Ballasts (A90) 	F99) (G90) A (F103/F104) 102)	PCB La PCB CG PCB CG PCB W PCB-CG	nall Capacitors >49ppm (A91) rge Capacitors >49ppm (A92) rulpment >499ppm (A98/A99/A 1 >49ppm (A95) bit and Debris Non-RCRA (A93) fire and Cable >499ppm (A105) contaminated Equipment 50-498 contaminated Water (A94) contaminated Wire/Cable 50-498)) Вррт (A97/A98/A100/A101)
Has this concentration been confirmed	7 🗆 NO	X YES (If s	a, how	
Has this concentration been confirmed		□ NO	YES (If so attach copy)	
Certification	51)	5734 R		The second start of missesses
sreby cartify that all information submitted in a smatter regarding known or suspected hazards. Inversal Weste. I authorize SALESCO SYSTEM	this and all attached in the passession of us usa, incAZ to	decuments co the generator hi obtain a sample	from any wester shipment for purposee	of the cartification.
inature 2 2 11			Title_ECC	
nted Name & Brigh Mcc.	quitt		Date_ 12-11-00	
	BELOWF	OR SALESCO	USE ONLY	Approved:

ATTACHMENT E Current Electrical Equipment Profiles

ONYX ENVIRONMENTAL SERVICES, LLC

5720C NE 121* Avenue, Suite 105, Vancouver, Washington 98682-6244

3 Recertification	WAS	TESTREAM	M INFORMA	TION PR	OFILE		
a kacamana	33177					CM0673	
						Approval Code	
SDF requested ARL 1	ochnology requested	DLF .	Gogerator No	453420	Generator EPA	No. OB014	01]3218
. Generator Name Di	Army Corps of Engine	20			Generaler Stat	te No.	
Addres Bonneville	Lock and Dam	88 84 88	7000 61	7 9 8	State Wastestree	m No.	
		Seste (Oregon	Conntra	USA	ZIP 97014	0150
City Cascade Lo	•						
SIC Code4911		Source /	169 Orlets	۱ ۱ 	Form B302	System Type	M1 32
Waste Name P	B Contaminated Electr	ical Equipmen	<u>u</u>	Lab or	Waste Area		
. Process Generating Wast	Clean up of Bra	dford Island L	endfill .				
Shipping Name	RO. Environmen	nially Hazarde	ous Substances, S	iolid		\$20	
Hagard Class 9 U	INMA No. UNZ315	PG H	RQ ame	_ I.			
RO Desc.: 1.			1	2			
DOT Desc. 1.	2.			3		14.	* 1000000000000000000000000000000000000
5. Waste Codes X012		Carlo.				· - · ·	
					Sub Cal	ternor	
Wastewater	Non	Westewater	:	==: .	340 C4		
6. Physical and chemical pro-	porties	W	4.755	21	Solida		
PH	Specific Gravity	Flash Port		590	% suspended		% ash
<2	b 8 10	80 -	100		% settleable		water solubility
2 5	e10	c 101	- (40)	(0.00)	% dissolved		BTUAL
⊾_X_3-9	d 10 12	d 141					
d9 - 12.5		e > 20			Liquid Range	0 to 0	*
e > 12 h	c_X, > 1.2	f X 100	17 (Control of the 17)	act Piece	- 	·	1 15.50
Physical State	· · · · · · · · · · · · · · · · · · ·		haracteristics				
z X solid	A ME ICACTIVE		Ministre p	NECKE	The second second	Odor/Describe	T
m semi-solid	w water reactive			Annual Contract of the Contrac	A 33.35	a none X	
	c cyanide react	70 mm	temp sensitiv			b mild	
l liquid p pumpable semi-solid	t sulfide reactiv		polymerizati	on/monorpe	r	c attong	
		11	carcinogen			1 -	107
The state of the s	장기가 나는 사람들이 아무리 사람이 있다.	200	infectious			Haluges	,
g gas			inhalation h	ezan!			Baomine
a ecrosol	b becoming form		e A, B, C, D				Chloruse
r pressureed house		2.00	A, D, C, D				Fluorine
d debris per CFR 268.45						10.70	lodine
a spanks	Color	· · · · · · · · · · · · · · · · · · ·					10.500 (0.000)
Leyers: a multilaye	red: b	bi Inyered	•	X single	PROFES .	Used oil y/n	
The state of the s							
Viscosity a high (syr		ngh (syrup)		high (syr		D HOC <10	
By bmerium	(oil) • b	medium (oil)	• b	_ medium		[] or > 1000	Digital Co.
Layer c low (wat		ow (water)	c .	low (wat	cr)	1	
d_X_solid	d X		4	X_ solid		1	
1	1 00000000000	1000	******		WITE NO	562753	
					WIP NO.	302133	

Constituents	Range	Units	Constituents	Range Units
Ballasts	I 50	100%		
PCB	258 ppm			
Fusci	50	100%		
Felt	10	20%		
	II.			
otal Composition Must liqual or Pacced 100%				
Other:	9		V W	_
Is the westestream being experted into the USA?			Yes No	^
PCB concernation 258 ppm	40CPR?		Yes_X No	Su z
			spents? Yes No	v
Is the westestream subject to Henzene NESHAP If yes, concentration ppm	Notification and C	ontrol Kodune	ments? Yes No	. ^
Is the wastestroom subject to RCRA subpart CC	controls?		Yes No	x
Volatile organs, concentration, if known				A SECTION SECT
CC approved enalytical method	Generator Know	wiedge "X		
2. Is the wastestream from a CERCLA or state man	ndated cleanup"		Ycs No X	
3. Container Information (Identify UN contain	er marking if know	n)		
Packaging: Balk Solid Type/Size: C'	Y Boxes I	Balk Liquid	Type/Size: Dram_X	Type/Size: 551A2
Other				
Shipping Frequency: Units 7	Per Month	Gireter	Year X One time Of	4
4. Additional Information				
GENERATOR CERTIFICATION				
hereby certify that all in formation submitted in the	is and all attached o	ocuments cont	teens true and accurate descriptions of	his waste. Any sample storic
representative as defined in 40 CPR 261 - Appen	dix I or by using a	dednisarent me	ethod. All relevant mroumanon regard	us though or suspenser inter-
he possession of the generator has been disclosed	l authorize sampli	ng of any was		MIL.
Bright HCC quitt			5-41-374-4575 PHONE	5.18-01 DATE
		-		DATE
de Mill (mource max)			PHONE	DAIR
NAME (PRINT OF TYPE)				DAIR
NAME (PRINT OR TYPE)		07-97-10-1-0	ECC.	

FACILITY NOTIFICATION

If approved for managem mt, ONIX has all the necessary permits and lucinses for the waste that has been characterized and identified by this profile

562753 WIP NO.

ONYX ENVIRONMENTAL SERVICES, LLC

5720C NE 121" Avenue, Suite 105, Vancouvez, Washington 98682-6244

### Approval Code ### SDF requested FTA_ Technology requestedIncin	Recertification	WASTESTR	EAM INFORMAT	TON PROFILE	
Constant Name US Amy Corps of Extinocry Generator State No.				·	Approval Code
Address Bonow ville Lock and Dam City Casca & Locks State Organ. Country USA ZUP 97014-0150 SIC Code 4911 Source A69 Origin 1 Form B407 System Type M043 Wester Nume: FCB Combanimated Electrical Equipment Lab or Waste Area Process Generating Waste Clean up of Bradford Inland Landfill Shipping Name RQ, Environmentally Hazardous Substances Solid Interest Class 9 UN/NA No. UN2315 PG II RQ-ment 1 Q Dusc: 1 OT Dusc. 1 Polych lock hashed Biphenryls Vaste Codes No 25 Wastewater Non Wastewater Substance Solid X 5-9 c 10 c 101-140 % suspended water solabilit X 5-9 c 10 c 101-140 % dissolved BTU/th y-125 d 1.0-12 d 141-200 >-125 d 1.0-12 d 141-200 >-125 d 1.0-12 d 141-200	DF requested PTA T	echnology requested Incin	Generator No.	453420 Generator EPA	No. QR0140113218
Address Bonn ville Lock and Dam City Cascale Locks State Organ Country USA ZIP 27014-0150 SIC Code 4911 Source A69 Origin 1 Form B407 System Type M043 Waste Name PCB Contaminated Electrical Entirgence: Lab or Waste Area Process Generating Waste Clean up of Bradford Inland Landilli Shipping Name RQ, Environmentally Hazardous Substances, Solid Shared Cleas 9 UN/NA No. UN2315 PG II RQ-sent 1 Q Deac: 1 Polych brinated Biphenyls 2 2 3 Waste Codes No. 22 Waste Codes No. 25 Specific Gravity Flash Point (F) Solids X 5-9 c 10 c 101-140 % dissolved BTU/lb 2 12.5 d 10.1-12 d 141-200 3 12.5 d 10.1-12 d 141-200 3 12.5 c X > 12 c > 200 Free Liquid Range 0 to 0 % Security Spaces Characteristics Flynical State Hazardous Characteristics K Solid Source A69 Origin 1 Form B407 System Type M043 Active State Waste Area Process Generating Waste Clean up of Bradford Inland Landilli Bay Codes Area No. Wastewater 1 No. Wastewater Substances Solid Bradford Codes No. 25 Wasteroster No. 25 Sub Category Substances Solid Waste Number Office Codes Active Substances Solid Substances Solid Report Substances Solid Report Substances Solid Substances Solid Report Sub	Cenerator Name US	Army Coms of Engineers		Generator Stat	to No
City Cases le Locks State Origin Country USA ZUP 77014-0150 SIC Code 4911				State Washestern	
Source A69 Origin Form B407 System Type MO43	Address Boom ville I	ock and Dam		State Washing	
Waste Name FCB Contaminated Electrical Equipment Lab or Waste Area Process Generating Waste Clean up of Bradford Island Landfill Shipping Name RQ, Environmentally Hazardous Substances, Solid therefore Class UR/MA No. UR2215 PG L. RQ sand Q Base: 1 Polych lorinated Biphonyis 2 3 Waste Codes No. 25. No. Wastewater Sub Catagory Waste Codes No. 25. No. Wastewater Sub Catagory Waste Codes No. 25. No. Wastewater Sub Catagory Wastewater No. Wastewater Sub Catagory Physical and chemists properties K 2 a 8 a 80 % suspended % ach water solubility V 2 b 8 10 b 80 100 % settleable water solubility V 3 5 5 5 10 141 200 V 5 125 c 7 125 d 10 12 d 141 200 Physical State Hazardous Characteristics X solid a ar reactive gasteristics shock sensitive shock sensitive But State Hazardous Characteristics shock sensitive shock sensitive But State State State State State State State State But State St	City Cascade Loc	ks State	e Oregon	Country USA	ZTP 97014-0150
Process Concreting Waste	SIC Code 4911	Source	A69 Origin	1 Form <u>B407</u>	System Type M043
Bidipping Name RQ Environmentally Hazardous Substances. Solid thererd Class 9 UN/NA No. UN2315 PG II BiG-namt Q Desc.: 1 OT Dess. 1 Polych locinaried Biphenyls 2 Waster Codes No.26. Wasterwater Non Wasterwater Sub Catagory Wasterwater Sub Point Color Wasterwater Sub	Waste Nume PC	B Contaminated Electrical Four	encut .	Lab or Waste Area	
Bidipping Name RQ Environmentally Hazardous Substances. Solid Base: 1 Desc. 1 To Desc. 1 Polych locinarized Biphenyls 2 Waster Codes No 26 Waster Codes No 26 Waster Codes Wast	Process Concreting West	e Clean up of Bradford Isl	and Landfill		
There Class 9 BR/NA No. UN2315 PG II BQ-next 2. 3 3 3 3 3 3 3 3 3					
Q Desc. 1 Polych lorinated Biphenyls 2 3	Shipping Name	RQ, Environmentally Ha	saudons Spharacer 30	<u>ua</u>	
Wasterwater No.25. Wasterwater No.25. Wasterwater No. Wasterwater Sub Catagory Su	thursd Class 9 U	N/NA No. UN2315 PG	11 RQ-ment	1	
Wasterwater No.25. Wasterwater No. Wasterwater Sub Catagory Sub Catag	ABout! 1		12	La company of the same	The second section of the second section of the second section
Wastewater Non Wastewater Sub Category Physical and chemical properties Specific Gravity Flash Point (F) Solids 2 a < 8 a < 80 % suspended % ash 2 b B 10 b 80 100 % settleable water solubilit X 5 - 9 c 10 c 101 - 140 % dissolved BTU/lb 2 > 12.5 d 1.0 - 12 d 141 - 200 3 - 12.5 c X > 1.2 c > 200 Free Liquid Range 0 to 0 % Examinable semi-solid waster reactive s shock sensitive I iquid semi-solid waster reactive s shock sensitive tomp sensitive I iquid costive m polymetrization/monomer I gas served prescribed infactsous gas conditing soid i infactsous gas conditing soid i infactsous gas conditing soid i infactsous gas served prescribed former h inhalation hazard general personned in the personned in the personned in the personned infactsous gas conditing soid i infactsous gas conditing soid i infactsous gas conditing soid i inhalation hazard general personned in the personned i		ated Biphenyls		- T	3
Physical and chemists I properties Specific Gravity Flash Point (F) Solids < 2	and the same of th		•		
Physical and chemical properties Specific Gravity Flash Point (F) Solids	Arme Codes 165 E				· - · · · - · ·
Specific Gravity Flash Point (F) 2 a < 8 a < 80	Wastewater	Non Wastewa	ler	Sub Car	tagory
Specific Gravity Flash Point (F) 2 a < 8 s < 80 % suspended % ash 2 5 b 8 1(1) b 80 100 % settleable water solubilit X 5-9 c 10 c 101-140 % dissolved BTU/lb 9-12.5 c X > 1.2 c > 200 Free Liquid Range 0 to 0 %	Thursday and alamin) were		A STATE OF THE STA		
2 3 8 10 b 80 100 % settleable water solubility			Point (F)	Solids	
Y S S S S S S S S S	5명 - 이번 보다	a <.8 a	< 80		
9-12-5 d 1.0-12 d 141-200	2 5	ь в 10 в.	80 100		
Physical State K solid acmi-solid biquid possible semi-solid f sulfide reactive sulfide reactive memory f sulfide reactive c cyanade reactive memory f sulfide reactive memory possible semi-solid f sulfide reactive c coplosive memory pressurized liquid debris per CFR 268 45 charpe Color Color Color Debryored Debryored Color Color Debryored Col	_X 5-9	c10 c.	101 - 140	% dissolved	BTU/IL
Physical State Hazardous Characteristics Hazardous Characteristics	** DOM: (2)	d 1.0 - 12 d	141 - 200		
Physical State Hazardous Characteristics				Free Liquid Hange	0., 10 0 76
A solid a cor reactive a stant-tolid biquid c cysmide reactive f sulfide reactive in polymentation/monomer flowable powder gas acrosol pressurized liquid debris per CFR 261141 charter polymentation/monomer acrosol pressurized liquid debris per CFR 261141 charter b bi-byered c X single phase Used oil y/a Low (water) spec: c Low (water) c Low (water) c low (water)					
semi-tolid semi-tolid liquid c cymide reactive i temp sensitive flowable powder gas semonal pressurized liquid debris per CFR 26:14) sharps syers: a mult laryered: b bi-layered a mole x b mult c strong F % Bromme F % Fluorine F % Fluorine F % Fluorine F % Fluorine I % Iodine Used oil y/a Used oil y/a Used oil y/a Used oil y/a page: a low (water) age: low (water)		10' 10'00'			1 Oder Davidson
liquid		3 YOU	that a me		
posspable semi-solid f sulfide reactive in polymerization/monomer flowable powder e explosive n carcinogen gas o oxidizing acid i infactious mercool presumized liquid presumized liquid debris per CFR 261145 charps Color sharps Color sharps Color b bi-layered c X single phase Used oil y/s Light (syrup) b medium (oil) b medium (oil) c no 1000 ppm sayer: c low (water) ii low (water) c shorps Color y Recomme Ci y Chlorms F y Fluorine I y lodine Used oil y/s Used oil y/s Used oil y/s	scan-solid				
flowable powder gas gas o oxidizing seid i infactious attract pressurized liquid debris per CFR 26! 4) sharps Colar wors: a mult layered: b bi-layered c _X single phase Used oil y/s Color b medium (oil) b medium (oil) b medium (oil) c low (water) c low (water) Halogous Halogous Halogous Halogous Halogous CI % Chlorme F % Fluorine I % Iodine Used oil y/s Used oil y/s Ligot < low (water)	bqua				
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pressurined liquid debris per CFE 26! 4) charps Color charps Color charps Color b bi-layered c _X single phase Used oil y/a Used oil y/a Used oil y/a Color per cycle b medium (oil) b medium (oil) c low (water) c low (water)					Halogous
personnized liquid debris per CFR 26! 4) charpe charpe charpe conty b mult largered: Color				eard	
debris per CFR 26! 45			Zonc. A. B. C. D		CI % Chlorms
sharps ayors: a mult layered: b bi-layered c X single phase Used oil y/a Used oil y/a Used oil y/a D medium (oil) b medium (oil) b medium (oil) c low (water) c low (water)					and the second s
ayers: a multilayered: b bi-layered c _X single phase Used oil y/a					I % lodine
The consisty a high (syrup) a high (syrup) a high (syrup) a high (syrup) b medium (oil) b medium (oil) b medium (oil) or > 1000 ppm c low (water)		red: b bi-layere	d	X_ single phase	
b medium (oil) b medium (oil) b medium (oil) c low (water)					
by b meximm (oil) b medium (oil) b medium (oil) c low (water) c low (water)	Pacosity high (syn				
syster; c low (water) : low (water) c low (water)		(oil) • b medium (□ or > 1000 ppm
a X solid d X solid d X solid	ayer: c _low (wat)	er) low (wate	r)		1
	d X sotid	d X solid	lq X	biloe	1

Constituents	Range	Umite	Constituents		Range	Units
Increen Capacitors	50	100%				
PCB	20 %	1				
Coupling Capacitors	50	100%	transmission description			
	T .					-
T					I 1	
T					II	
otal Composetion Must I qual or Exceed 100%				50 11 11 11 11 11 11 11 11 11 11 11 11 11		
Xher:						
is the westertream being imported use the USA	?		Yes_	No X		
Does the wastestream contain PCBs regulated by	v 40CFR?		Yes _X	No		
	THIS .					
			AND STREET			
Is the wastestream sur just to Benzene NESHAI	P Notification and C	ontrol Requirem	ents/ Yes	No X		
If yes, concentration pper			25			
Is the wastestpeans subject to RCRA subpart CC	controls?		Yes	No x		
Volatile organic concentration, if known	ppine	,				
CC approved analytical method	Generator Know	wledge X				
2. Is the wastestream from a CERCLA or state ma	Commete heatcher		Yes No 3	•		
. If the windestrough from a Concern of seasons	mater creamp.		165			
Container Information (Identify UN contain	- marking if broom					
Conjumer Information (Identity ON Continu	RE WALKING II KIJOM	α)				
Packaging: Balk Solid Type/Size. C	Y Boxes B	talk Liquid	Type/Size Drus	x X Type/Siz	551A2	
Other		-				
Shipping Proquency: Umts 7	Per Month	Quarter	Year X_ One Time	Other		
	-					
4. Additional Information						
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SWED ATOR CERTIFIC ATION						
	is and all stracked its	ocumento conto	na true and accurate description	me of this was	Awy spenie -	hamitta
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hereby certify that all information submitted in the representative as defined in 40 CFR 261 - Appen	udix I or by using an	equivalent meth	od. All relevant information:	regarding known		
hereby certify that all information submitted in the representative as defined in 40 CFR 261 - Appen se pussession of the generator has been disclosed.	dix I or by using an I authorize samplin	equivalent meth	od. All relevant information shipment for purposes of rece	regarding known referation.	or suspected i	
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RENERATOR CERTIFICATION hereby certify that all information submitted in the representative as defined in 40 CFR 261 - Appen to pursuant of the generator has been disclosed. Recipe For Type AME (PRINT OR TYPE)	dix I or by using an I authorize samplin	equivalent meth	od. All relevant information shipment for purposes of rece	regarding known referation.	or suspected i	

ACILITY NOTUPICATION

I approved for management, ONIX has all the necessary permits and licenses for the waste that has been characterized and identified by this profile.

WIP NO. 562718

Columbia Ridge, Hillsboro, Riverbend, Graham Road, Capitol, Wenatchee

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	7	, /

WASTE PROFILE SHEET TERMS & CONDITIONS

Profile Number:		
Expiration Date:		34
Profile Addend	um A	ttached?

			□ No	
Generator/Site Name: US 47my Corps of Engire	152. SIC Code: 9999			
Site Address: Banneville Lock + Dam	4. Site City: Cascade	Lucks		7 .
Site State: OR 7. Zip Code: 97014	[11] [11] [11] [11] [11] [11] [11] [11]			•
Generator USEPA/Federal ID#: 0R 014013218	9. Site Phone:		100	*
Customer Name: Fass Environmental		-978-	7274	
Customer Contact: K- Bewedict	5000	289-65		
Customer Cantact: N- 027-E 010	13. Customer FAX: 203	G-11 D-		
Caca- to de las	A STATE OF THE STA	Emiron	mente	,
Waste Description, Category: Ceramic, de 615	7 TO TO 10 TO THE POST OF THE	O No CA		
State Waste Code: M/A				
Process Generating Waste: Ceramic electrical		-land, or	~ 112	:
equipment, circuit 6 party plastic de	[1] 경영 시간 [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]	10		
Transporter/Transfer Station: For Evilonmental	6. Shipping Method: 20			
Estimated Quantity (Weight & Vol.): ~ 10-15 yds	per 🗷 Job	O, Year O	Other	
Delivery Date(s): 12 22 00				
Personal Protective Equipment Requirements:				
Is this a US Dept. of Transportation (USDOT) Hazardous Materia Yes DNo (fine skip 10, 11 and 12)	17 11. Reportable Quantity:		7	-0
Hazard Class / I.D. #:	13. Shipping Name: NO	U RCRA/	VINI	OT Resn
heck if additional information is attached. Indicate the numb	3.5400.0000	٠.		
		1		
		Yes	No	
is the waste represented by this waste profile sheet a "Hazardous	Waste" as defined by USEPA.		×	1910
Canadian, Mexican, State, or Provincial regulation?	11600 40 44 116 11			
Canadian, Mexican, State, or Francisco regulation?	2006-000 •1 20 00			1
Does the waste represented by this waste profile sheet contain re regulated concentrations of Polychlorinated Biphenyls (PCBs)?	5799400 6 3 38 05		×	(~6pp
Does the waste represented by this waste profile sheet contain re	gulated radioactive material or	¬ ×	X	(~6pp
Does the waste represented by this waste profile sheet contain re- regulated concentrations of Polychlorinated Biphenyls (PCBs)? Does this waste profile sheet and all attachments contain true and material? Has all relevant information within the possession of the Generate	guiated radioactive material or d accurate descriptions of the waste or and Customer regarding known or		10	(~6pp
Does the waste represented by this waste profile sheet contain re- regulated concentrations of Polychlorinated Biphenyls (PCBs)? Does this waste profile sheet and all attachments contain true and material? Has all relevant information within the possession of the Generate suspected hazards pertaining to the waste been disclosed to the is the analytical data attached hereto derived from testing a representation.	guiated radioactive material or d accurate descriptions of the waste or and Customer regarding known or Contractor?			(~6pp
Does the waste represented by this waste profile sheet contain re- regulated concentrations of Polychlorinated Biphenyls (PCBs)? Does this waste profile sheet and all attachments contain true and material? Has all relevant information within the possession of the Generate suspected hazards pertaining to the waste been disclosed to the is the analytical data attached hereto derived from lesting a representation of the CFR 261.20(c) or equivalent rules?	guiated radioactive material or d accurate descriptions of the waste or and Customer regarding known or Contractor? sentative sample in accordance with	X X		
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